

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

Pg



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/923,135	08/06/2001	Shigefumi Odaohhara	JP92000182US1	8947

25299 7590 06/28/2004

IBM CORPORATION
PO BOX 12195
DEPT 9CCA, BLDG 002
RESEARCH TRIANGLE PARK, NC 27709

EXAMINER

SURYAWANSHI, SURESH

ART UNIT	PAPER NUMBER
----------	--------------

2115

DATE MAILED: 06/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/923,135

Applicant(s)

ODAOHHARA, SHIGEFUMI

Examiner

Suresh K Suryawanshi

Art Unit

2115

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 August 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 August 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

Art Unit: 2115

DETAILED ACTION

1. Claims 1-15 are presented for examination.

Claim Objections

2. Claim 14 is objected to because of the following informalities: claim limitation at lines 7-8 recites “stopping the operation of said source power supply if said detected residual capacity in said battery is *under* a predetermined value” should be re-written as “stopping the operation of said source power supply if said detected residual capacity in said battery is *over* a predetermined value” [*emphasized*]. See the supporting paragraph in the spec at page 9, lines 13-24.

Appropriate correction is required.

Art Unit: 2115

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

4. Claims 1-15 are rejected under 35 U.S.C. 102(a) as being anticipated by Sato (JP 2000112579 A; see attached translation copy).

5. As per claim 1, Sato teaches

source power supply which supplies to a system electric power received from an external power source [drawing 1; element 20; para 0020];

a battery which is charged with electric power supplied from said source power supply and which discharges electric power to said system [drawing 1; element 15; para 0008, 0010];
and

an electric power supply controller coupled to said source power supply and to said battery and which controls supply of electric power to said system from said source power supply and said battery [drawing 1; element 12; para 0012];

Art Unit: 2115

said electric power supply controller switching supply of electric power between said source power supply and said battery to said system based upon:

connection status of said source power supply [para 0032], and

connection status of said battery [para 0040], and

a system parameter indicative of the status of said system [para 0035, 0042; the activity of the information processor is down].

6. As per claim 2, Sato teaches that wherein said system parameter is indicative the load drawn by said system and wherein said electric power supply controller instructs said source power supply to stop its operation, thereby reducing the power consumption of said system when said system is loaded below a predetermined threshold [para 0035-0038; activity of the information processor is down].

7. As per claim 3, Sato teaches that wherein said system parameter is indicative of the capacity of said battery and wherein said electric power supply controller instructs said source power supply to supply electric power to said battery so as to charge it when the residual capacity in said battery goes under a predetermined value due to discharging [para 0039].

Art Unit: 2115

8. As per claim 4, Sato teaches

an AC adapter connected to an AC power source and enabled to supply electric power to an electric device connected thereto [drawing 1; element 20; para 0020];

a battery which is charged with electric power supplied from said AC adapter and is enabled to discharge electric power to said electric device [drawing 1; element 15; para 0021];
and

a controller which controls the supply of electric power so that said battery supplies electric power to said electric device while said electric device connected to said AC adapter is loaded below a predetermined value [drawing 1; element 12; para 0035-0038; activity of the information processor is down].

9. As per claim 5, Sato teaches that wherein said controller controls so as to stop the operation of said AC adapter while said electric device is loaded below a predetermined value [para 0035-0038; activity of the information processor is down].

10. As per claim 6, Sato teaches that wherein said controller detects the residual capacity in said battery and activates said AC adapter to start charging of said battery if said detected residual capacity is under a predetermined value [para 0039].

Art Unit: 2115

11. As per claim 7, Sato teaches that wherein said controller stops the operation of said AC adapter at the end of charging of said battery [para 0039].

12. As per claim 8, Sato teaches

a battery capacity detector which detects the residual battery capacity in said battery [para 0039];

a comparator which determines said battery capacity is over a predetermined value as detected by said battery capacity detector [para 0024, 0035-0039];

a battery power supply which supplies electric power to said device from said battery if said battery capacity is over said predetermined value as determined by said comparator while load from said electric device is below a predetermined value [para 0035-0039]; and

a source power supply controller which stops the operation of said source power supply [para 0035-0039].

13. As per claim 9, Sato teaches that wherein said electric device is a car [para 0001; an electronic equipment].

Art Unit: 2115

14. As per claim 10, Sato teaches that wherein said electric device is a computer [para 0002].

15. As per claim 11, Sato teaches that

wherein said comparator determines said residual battery capacity is over said predetermined value [para 0039]; and

said electric device further includes a charger [para 0039; drawing 1; element 11].

16. As per claim 12, Sato teaches

a power supply path connected to a secondary battery that repeatedly charges and discharges and supplies electric power to said computer [drawing 1; element 15]; and

a controller which stops the operation of said AC adapter connected thereto when said computer is powered off and enables said battery to supply electric power required for said predetermined electric power via said power supply path [drawing 1; element 12; para 0035-0039].

Art Unit: 2115

17. As per claim 13, Sato teaches that wherein said controller detects the residual capacity of said secondary battery, which is reduced due to discharging and charges said secondary battery by activating said AC adapter if said detected residual capacity is under a predetermined value [para 0039].

18. As per claim 14, Sato teaches

(Examiner has considered the suggested re-written limitation for examination purpose as described above in claim objection in paragraph 2).

detecting the residual capacity in said battery [para 0024, 0039; condition of battery];

stopping the operation of said source power supply if said detected residual capacity in said battery is over a predetermined value [para 0039; terminating the ac adapter upon battery has been fully charged]; and

enabling said battery to discharge electricity so as to supply electric power to said electric device when said electric device is loaded below a predetermined value [para 0035-0038].

Art Unit: 2115

19. As per claim 15, Sato teaches

detecting the residual capacity in said battery, which is changed due to its discharging
[para 0039];

activating said source power supply if said detected residual capacity in said battery is
under said predetermined value [para 0039]; and

enabling said source power supply to charge said battery [para 0039].

Art Unit: 2115

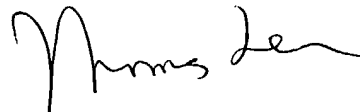
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suresh K Suryawanshi whose telephone number is 703-305-3990. The examiner can normally be reached on 9:00am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas C. Lee can be reached on 703-305-9717. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

sks
June 16, 2004


THOMAS LEE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100